

# **Software Implementation and Testing Document**

**For**

**Group <6>**

Version 1.0

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## 1. Programming Languages (5 points)

- Javascript (with JSX)
  - Required for building React components and handling web behavior. Used in the majority of the source files.
- HTML
  - Required for web development. The elements that make up the content of our website are defined within JSX elements that are very similar to HTML syntax. Although we aren't developing too heavily within any html files, we are still required to utilize many of the same principles needed to write HTML.
- CSS
  - Required for styling the content of the website. We have external stylesheets that will hold any CSS styling rules so that they can be applied to various elements as needed.

## 2. Platforms, APIs, Databases, and other technologies used (5 points)

- Platforms
  - Web-based
- Front-end Frameworks
  - React
- APIs
  - Firebase Authentication: Used in the Login and Registration components to create and log into user's accounts. Also used in every page to make sure that the user is actually logged in.
- Databases
  - Firestore: Used in the Account Setup component to send the user's data to the database. Also used in other components where they have to retrieve the user's data.
- Libraries
  - MUI (Material-UI) for our React components such as buttons, text fields, etc.
  - Fontsource for custom fonts (Roboto font with multiple font weights)
- Other technologies
  - VSCode with git source control
  - Node package manager
  - Node.js

## 3. Execution-based Functional Testing (10 points)

N/A

## 4. Execution-based Non-Functional Testing (10 points)

N/A

## 5. Non-Execution-based Testing (10 points)

N/A